

Potential Warranty Issues

Round 5

1/28/2008

Item	Company	Response
Chain and Cable Lubricants	Accro-Seal	Husk-Itt manufactures most of lubrication products for Accro-Seal as well; left contact information with Ray if he can find out any info about research or warranty issues regarding biobased lubricants to contact me
	Husk-Itt Corporation	Jim mentioned that company has several biodegradable lubricants for various applications; currently working on a veg-oil based corrosion inhibitor; also mentioned that his experience is that biobased not usually used unless Gov't mandates its use
	International Lubricants	Wayne told me that Iowa State already has detailed information about all of the products made by Int'l Lubricants, and that I should contact Jason Erickson if I have any further questions; not aware of any research or warranty concerns related to using biobased c/c lubricants vs. traditional; doesn't believe it's an issue of warranty/research- always an issue of cost; wouldn't comment on that; familiar with program and didn't seem too happy to deal with us again for some reason
	K/M Specialty Pumps Inc	Referred to the manufacturing company for K/M -- Whitmores
	Kano Laboratories Inc.	Spoke with Tech, who referred me to contact the CEO about the issue of biobased lubes; emailed Mr. Zimmerman; tried to call again but was cut off several times; so I sent another email to Mr. Zimmerman
	Krylon Products Group	Joe in support passed on my request for information about any biobased lubricants used for c&c or gears; Joe emailed me back saying company uses no biolubes or knows of any research or warranty issues pertaining
	MSC Industrial Supply Co	Larry mentioned that a company called "Mistic" manufactured a biobased lubricant for machinery, but didn't have any other info; didn't know of any other biobased lubes on market for machining purposes
	Specialty Lubricants Corp. (Eastern Division)	Mark told me to contact Jim Landry at sister company that manufactures the lubricants for Specialty (Husk-itt); mentioned that Specialty packaged and sold a biobased cutting oil by Renewable Lubricants Co. in the past
	Tomlin Scientific, Inc.	Company manufactures for private OEMs; all products are application specific, and there have not been any specific requests for biobased lubricants at this time; knows that biobased industry is mostly small companies at this time, while large companies wait for the small ones to break into the market and create more of a demand; referred me to International Lubricants in Seattle
	Whitmore Manufacturing Co.	Left a message with Tom for Scott to call me back later today; called a second time
Gear Lubricants	AF Gear Technology	Unable to reach company by phone or email
	Bearing Service Co. (LaSalle, IL office)	Site directed all questions to be submitted by email; sent email asking about use of biobased gear lubricants and any info they could pass on about research/warranty issues related to; distribution company only, didn't want to comment on any biobased products
	Bernard Laboratories, Inc.	Left message on Boyd's voicemail asking to speak with him about the distribution/packaging of biobased gear lubricants, since that is what Bernard Labs does.
	Bison Gear and Engine Corporation	Referred to this company by Niagara; looking to speak with an engineer about enclosed gear boxes/ whether those types of applications would be related to any warranty concerns for using biobased lubes as opposed to traditional lubes; asked him to call me back
	Circle Gear & Machine Co. Inc.	Nobody there at the company is willing to comment on whether or not they would recommend any biobased products; guy there mentioned that he didn't even know that there was biobased gear lubricants; not aware of any warranty or research issues that might be related to usage of biobased products; referred me to some manufacturers that make closed gears/gearboxes

	David Weber Oil Co.	Spoke with Noel, but he asked me to email him since he was busy at the moment; I emailed him asking for any info/insight about research and warranty issues related to biobased gear lubricants, also what impression Noel had about the biobased lubricant industry in general; phoned again, secretary said he got my email, and would be in touch with me
	Greenville Industrial Rubber & Gasket	Jeff was very busy and said he'd call me back at a later time with the info I was looking for; did mention that company only uses petroleum-based lubricants for its products/services; most of machines that company services and works on will not keep warranty if biobased lubes used instead of pet-based lubes; wouldn't speak any more about it
	Hohman Plating & Mfg, Inc.	No biobased lubricants at the company. A message was left for Mike Humble, building manager for the company to call me back and speak to me about research/warranty issues.
	Kluber Lubrication North America (Brighton, MI)	Spoke with Mark in Engineering Dept.; Kluber makes a couple different biodeg. gear lubes; asked him to email me the MSDS or info about those lubes; developing oils for marine industry as well -- said it depends on type of oil about whether it will affect performance and warranty; doesn't think the plant-based oils are as good for gears; theirs is an ester-based synthetic; not aware of any warranty issues/concerns; glycol-based oils are what they're based on; Klübersynth GEM 2 series is the synthetic biodegradable oil
	Lubrication Technology, Inc.	It would be a niche application, as per extreme temperatures; would not cater to an "ambient env."; the company said it would cater to the needs of consumer; all based on synthetic oils from LTI, may have a few soy-based products; all LTI industry came from aerospace industry; not familiar with any research or warranty; did mention ELM as a possible contact
	Moore & Balliew Oil Co.	Only distributor of petroleum-based lubricants; company has not been looking into or researching biobased lubricants of any kind; not comfortable talking about or giving insight into biobased fields; did not know of any ongoing research or warranty issues related to the field
	Niagara Gear Corporation	They don't make the gearboxes or do the assemblies themselves, so not really comfortable making any statements about warranty issues/ not aware of any ongoing research in the biobased gear lubricant field
	Perry Tool and Research Co.	Using biodegradable solvents and lubricants are all mineral based; not aware of any warranty/research issues that would be in effect that biobased gear lubricants would have to worry about as opposed to traditional lubricants -- company only uses OEM recommended products for equipment
	Philadelphia Gear	Company does use a biobased preservative called S-guard, but company has issues with equip. loadings where they have to add extreme pressure additives; very important element to reduce friction; left message with head tech. George Langford to get back to me about biobased gear lubes
	Solvay Solexis (NJ office)	Sent email as that was preferred method of contacting company with any questions; contacted company and left message on Dave's voicemail. This company did not respond to the multiple attempts to contact them about warranty issues with this item.
Parts Wash Solutions	A-1 Parts Washing	John not aware of any other type of biobased; everything is alkaline based in terms of parts wash solutions; he wasn't familiar with any research or warranty issues, and didn't feel confident enough to comment on any biobased or bioremediating wash solutions as he didn't know about them
	Alliance Manufacturing Inc	Do not specify to customers what cleaners to be used; design machines, end user discusses chemicals to be used by designed machines, water-based machines only; not familiar with any research or warranty issues that might present themselves for biobased parts wash solutions
	B & B Blending Inc. (Denver, CO)	Left message for Bob asking him to return my call and give any information about use of biobased parts wash solutions
	C & H Chemical, Inc.	Uses sodium silicate in all fluids that company produces; not enough of a variety of materials for these type of manufacturing; specialized items for washing may be more difficult for biobased solutions; have one product that has a soybean-based ingredient as one part of the solution; hi-temp washing would definitely pose a problem for biobased wash solution

Desert Shield Int'l Inc.	Spoke with Cathy at length about biobased products made by her company; parts wash solution contains "oil eating microbes" and is completely biodegradable; not aware of any research or warranty issues surrounding the product, and is very interested in BioPreferred program
Envirosan	Sent email to company as website directed; product called Solution 2000 is supposed to be a biobased and all-natural parts wash solution; asked for someone at company to contact me and perhaps share info about research/warranty issues related to biobased parts wash
Hotsy	Left a message on David's voicemail to call me back with any information regarding his knowledge of any research/warranty issues that would be related to using biobased parts wash solutions
JRI Industries	Would need a rust inhibitor for stainless steel; not a whole lot of wear-item parts in machines; as long as it doesn't affect pump; doesn't think it would be a problem if it wasn't acidic or solution based; no familiar with any biobased parts wash solutions
KleenTec	James not aware of any warranty concerns for any particular applications; limited to those machines that are specific to aqueous-type product -- must be able to handle certain type of product; company has only 1 soy-based degreaser (not had much success with it yet) and has same use specs as aqueous-based solution; asked James if he could email MSDS specs or further info about solution to us; can be used in any machinery that uses aqueous-based solutions; other than that, not aware of any research or warranty issues related to biobased product; James emailed me MSDS information on KT715 parts wash solutions
Proceco, Inc	Not using any biobased products for parts washing at this time; doesn't think that there would be any adverse effects using biobased wash; may be a problem with a bacterial growth in the bath itself; that could be a drawback in the process itself, but would still not have a problem with warranty issues related to the equipment
Proscio, Inc.	Jerry said that company supplies parts washing systems for smaller independent companies as well as a major aerospace -- mentioned that there would not be any warranty concerns because they are manufacturer and specifically request specific products; most of the companies clients
Ransohoff	Phone line was busy several times that I tried to call it, so I sent Joe an email asking him to call me so I could speak to him about research/warranty issues related to the use of biobased parts washing solutions
Rite-Kem	Company adds ingredients to orange terpen (d-limonene based); not familiar with any research or warranty issues that might be related to use of biobased parts wash solutions -- referred me to Florida Chemical company
Service Line, Inc. (Renegade)	Has been tested and is safe to drink (President of company did it on a dare); company makes washing equipment and detergent solution; believes that there is a stigma with water-based cleaners that they can't clean as good; doesn't believe that bioremediation works, and it is all quite costly; lady mentioned she would pass on my information to President of the company and he would call me back and give more information
Solvent Kleene, Inc.	Company uses 1 aqueous based solution, and the rest are solvent-based; company sells a solvent-recovery system, but only makes the solution; product #2603 is an aqueous-based product, but he wasn't sure if it involved any biobased materials; referred me to the chemist and said he would take a message and pass it along for me
Stoelting (A Polar Ware Company)	Not aware of any types of warranty issues related to biobased parts wash solutions; use detergents and water; any type of wax materials would be their main concern in getting into their machines; typically the companies will tell them specifically what they want to use; alkaline based cleaners usually
Tysol Products, Inc.	Company is researching use of biobased parts wash solutions; but concerned that current ingredients do not clean as well as others; doesn't know of any company that says they have a 100% biobased parts wash solution or aware of any research or warranty concerns; believes that cost is the main obstacle -- end use cost has to be comparable for the company to use and promote